

Syllabus – CS 346 – Web Software Design – Fall 2013

INSTRUCTOR: Tom Naps

OFFICE: Halsey 214, phone 424-1388

EMAIL: naps@uwosh.edu

OFFICE HOURS: MWF 11:00 -noon, TTh 4:00 - 5:00

REFERENCES:

- Class lecture notes available on D2L
- *Web Development with Javascript and AJAX Illuminated* by Allen, Qian, Tao, Lu – Jones and Bartlett Publishers

Topic Coverage

1. Internet – history and organization – Chapter 1
2. HyperText Markup Language – Chapter 2, Sections 1 and 2
3. Cascading Style Sheets – Chapter 2, Section 3
4. HTML forms – Chapter 2, Section 4
5. XML – Chapter 3
6. Client-side programming in Javascript – Chapter 4
7. AJAX – Chapters 5 - 7
8. Server-side programming
 - PHP – Chapter 10, Section 4
 - Tomcat – Chapter 10, Section 5
 - Basic database access – Chapter 10, Section 8

Learning Outcomes

Given our coverage of these topics, you will be expected to ...

1. Explain the key concepts associated with internet architecture that facilitates web application development.
2. Explain the basic components of web architecture and describe how web browsers and servers work in tandem.
3. Describe a web engineering framework to support the development of web-based applications.
4. Apply the web engineering process to the development of a moderately complex web application.
5. Utilize an integrated development environment to construct and deploy a web application.
6. Construct and validate web pages.
7. Design and implement client-side application logic with selected scripting languages.
8. Design and implement server-side application logic with selected technologies.
9. Design and implement the model-view-controller architecture for web-based applications.
10. Design and construct web pages that interact with persistent storage.
11. Read and apply web standards to the design and creation of web-based applications.
12. Identify trends in web technologies and develop an evaluation strategy for assessing emerging web technologies.
13. Work effectively with a small team of web developers to produce a web application.

Course Grading Policies

Your final grade for this course will be based on five factors, namely exams, lab exercises, unannounced in-class quizzes, individual component of a non-profit web development project, and team component of a non-profit web development project

Factor	Weight
Exams (2)	25%
Lab Exercises	25%
Quizzes	10%
Individual Component of Non-profit Web Development Project	15%
Team Component of Non-profit Web Development Project	25%

At the end of the term, your work in all of these areas will contribute to a numerical grade for the course based on a 100-point scale. Grade cutoff levels on this final scale are:

A \geq 92	B \geq 82	C \geq 72	D \geq 62
A- \geq 90	B- \geq 80	C- \geq 70	D- \geq 60
B+ \geq 88	C+ \geq 78	D+ \geq 68	F < 60

FAQ

Do I have to come to class? You are expected to arrive prepared to ALL the course sessions. Furthermore you are expected to participate in the classroom discussions and activities to the best of your abilities. This includes being ready to defend your answer to review problems that are occasionally assigned and take those nasty unannounced quizzes that comprise 10% of your grade. It is difficult to envision a student missing and/or arriving unprepared to a number of the class sessions and still succeeding in the course.

What if I'm late in submitting a lab or other assigned work for evaluation? Each lab and assignment will carry with it a due date. If you are late in submitting it for evaluation, it will be accepted but will be penalized at the rate of 10% of point value the first day late, *an additional* 20% the second, *an additional* 30% the third . . .

Can I get an extension on work that is due on a specified date? Only if you're ill enough to provide a signed note from the attending physician or have other reasons serious enough that the Dean of Students Office is willing to provide a written note justifying the extension.

If I miss an exam, can I make it up? If you are unable to take a scheduled exam, it may be possible to take a make-up exam provided that you do BOTH of the following, which are then subject to my approval:

- Make arrangements prior to the scheduled exam (for last minute emergencies, telephone me at 424-1388 or leave a message at the computer science office, 424-2068). No after-the-fact notifications will be accepted . . . *AND*
- Have a written medical excuse signed by the attending physician OR have a note of justification from the Dean of Students Office.

Only one make-up exam will be given. It will be a rigorous comprehensive exam given at an arranged time during the last week of the semester.

If I miss a quiz, can I make it up? No.

Can I work with others on the labs or on other individually assigned work? No, not in the sense of two people working together on the same problem. You may not "borrow" any piece of code or design of any length from someone else, unless you can live with a zero and the other potential academic sanctions of cheating (see UWO Student Discipline Code 2007, Chapter UWS 14). However, it is acceptable to consult another student for help in debugging code that you have authored yourself and that is not producing the result you expected.